THOMAS M. GARTH GRTMG 1-4 GREENE COUNTY

VIRGINIA POLLUTION ABATEMENT PERMIT APPLICATION FORM D: MUNICIPAL EFFLUENT AND BIOSOLIDS

PART D-VI: LAND APP	LICATION AGREEMENT	- BIOSOLIDS AND INDU	ISTRIAL RESIDUALS
here as "Landowner", and remains in effect until it is to the Landowner in the event individual parcels identified	reement is made on	elerred to here as the "Perm party or, with respect to thos els, until ownership of all pa nose parcels for which owne	nittee". This agreement se parcels that are retained by arcels changes. If ownership o ership has changed will no
Landowner: The Landowner is the owner the agricultural, silvicultural attached as Exhibit A.	er of record of the real propert or reclamation sites identified	y located in <i>Gyllul</i> I below in Table 1 and identi	இ. Virginia, which includes fied on the tax map(s)
Table 1.: Parcels aut	horized to receive biosolids, w	vater treatment residuals or	other industrial sludges
Tax Parcel ID	Tax Parcel ID	Tax Parcel ID	Tax Parcel ID
7M36 Aarcel 57			
	d Application Sites are identified on S		
	e Landowner is the sole owne e Landowner is one of multiple		
within 38 months of the late 1. Notify the purchase later than the date of the later than the date of the later than the date of the later than the later t	vner sells or transfers all or pa st date of biosolids application r or transferee of the applicab of the property transfer; and e of the sale within two weeks	n, the Landowner shall: le public access and crop m following property transfer.	anagement restrictions no
notify the Permittee immedia	er agreements for land applica ately if conditions change such this agreement becomes inve	n that the fields are no longe	r available to the Permittee
agricultural sites identified a inspections on the land iden purpose of determining com		andowner also grants permis after land application of perements applicable to such a od processing waste of Divides	ssion for DEQ staff to conduct mitted residuals for the oplication. ner industrial sludges Yes No
Thomas M GAR	/ Slower M.	Sorth Stor	0 Rea Ridge Rd
Landowner - Printed Name, Title	Signature		ng Address & Phone Number
manner authorized by the VPA	Permittee, agrees to apply biosoli Permit Regulation and in amoun plication field by a person certifie	ds and/or industrial residuals or ts not to exceed the rates identi	fied in the nutrient management
	the Landowner or the Landowner ar application to the Landowner's		
☐ I reviewed the document(s)	assigning signatory authority to the for review upon request. (Do not one)	ne person signing for landowner	above. I will make a copy of this
Permittee Authorized Represer	Signature Signature		nington, Virginia 22734 ng Address
rinted Name			

Rev 9/14/2012

Permittee: Recyc Systems, Inc Landowner: Thomas M. Garth	County or City: Greene Co.
Landowner Site Management Requirements:	
Landowner Site Management Requirements:	

I. the Landowner, I have received a DEQ Biosolids Fact Sheet that includes information regarding regulations governing the land application of biosolids, the components of biosolids and proper handling and land application of biosolids.

I have also been expressly advised by the Permittee that the site management requirements and site access restrictions identified below must be complied with after biosolids have been applied on my property in order to protect public health, and that I am responsible for the implementation of these practices.

I agree to implement the following site management practices at each site under my ownership following the land application of biosolids at the site:

 Notification Signs: I will not remove any signs posted by the Permittee for the purpose of identifying my field as a biosolids land application site, unless requested by the Permittee, until at least 30 days after land application at that site is completed.

2 Public Access

- Public access to land with a high potential for public exposure shall be restricted for at least one year following any application of biosolids.
- b. Public access to land with a low potential for public exposure shall be restricted for at least 30 days following any application of biosolids. No biosolids amended soil shall be excavated or removed from the site during this same period of time unless adequate provisions are made to prevent public exposure to soil, dusts or aerosols;
- c. Turf grown on land where biosolids are applied shall not be harvested for one year after application of biosolids when the harvested turf is placed on either land with a high potential for public exposure or a lawn, unless otherwise specified by DEQ.

3 Crop Restrictions.

- Food crops with harvested parts that touch the biosolids/soil mixture and are totally above the land surface shall not be harvested for 14 months after the application of biosolids.
- Food crops with harvested parts below the surface of the land shall not be harvested for 20 months after the
 application of biosolids when the biosolids remain on the land surface for a time period of four (4) or more
 months prior to incorporation into the soil,
- c. Food crops with harvested parts below the surface of the land shall not be harvested for 38 months when the biosolids remain on the land surface for a time period of less than four (4) months prior to incorporation.
- d. Other food crops and fiber crops shall not be harvested for 30 days after the application of biosolids;
- e. Feed crops shall not be harvested for 30 days after the application of biosolids (60 days if fed to lactating dairy animals).
- 4. Livestock Access Restrictions:

Following biosolids application to pasture or hayland sites:

- Meat producing livestock shall not be grazed for 30 days,
- b. Lactating dairy animals shall not be grazed for a minimum of 60 days.
- Other animals shall be restricted from grazing for 30 days;
- 5. Supplemental commercial fertilizer or manure applications will be coordinated with the biosolids and industrial residuals applications such that the total crop needs for nutrients are not exceeded as identified in the nutrient management plan developed by a person certified in accordance with §10.1-104.2 of the Code of Virginia;
- 6. Tobacco, because it has been shown to accumulate cadmium, should not be grown on the Landowner's land for three years following the application of biosolids or industrial residuals which bear cadmium equal to or exceeding 0.45 pounds/acre (0.5 kilograms/hectare).

Landowner's Signature

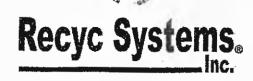
Date

1000 Pea Ridge Rd. Stanardsville.VA 22973 434-825-7427

Same as above

Farm Operator Signature

Mailing Address & Phone Number



ADJOINING LANDOWNER WAIVER

DATE: 12	-21-14	
FARM SITE:	Thomas GARTI	
COUNTY: _	Grative G	RTMG

I hereby give permission for Recyc Systems, Inc to apply biosolids within initial 25 feet of my property line. I understand that DEQ provides a 100/50 foot buffer from property lines unless waived by the landowner.

- A 100 foot buffer from wells and springs will be maintained as required by DEQ.
- A 200 foot buffer from occuipied residences will be maintained as required by DEQ.

Landowner Signature

COUERS FISH'S

ON 646 From

SHREAM to

top of HILL

FARM DATA SHEET

SITE NAME:	Thomas M. Garth	COUNTY:	Greene
OWNER:	Thomas M. Garth	OPERATOR:	Thomas M. Garth
OWNER'S	1000 Pea Ridge Road	OPERATOR'S	1000 Pea Ridge Road
ADDRESS:	Stanardsville, VA 22973	ADDRESS:	Stanardsville, VA 22973
OWNER'S TELEPHONE:	434-985-2458	OPERATOR'S TELEPHONE:	434-985-2458
GENERAL FARM TYPE:	Pasture/ Hay	CELL PHONE:	434-825-7427
# CATTLE:	40	EMAIL:	1
LAGOON or SLURRY:	None	LATITUDE:	38.292
TOPO QUAD:	Stanardsville	LONGITUDE:	78.468
COMMENTS:	,	METHOD OF DETERMINATION:	Online Maps
Prior to t	field operations please ch	eck all fields for rock outcro	p and slope.
			.
lt.			80 A

RECYC SYSTEMS, INC FIELD DATA SHEET

Field	DEQ	Gross	Enviro	nmentally	Sensitive	Soils		Tax	FSA
Identification	Control ID	Acres	Water Table	Bed Rock/ Shallow	Surf/ Leach	Freq Flood	Hydro Map	Map#	Tract#
									T 744
GRTMG 1	51079-00163-0000	18.8	49	AsD	-	·-	JR 10	36-A - 57	F 2
						3			T 744
GRTMG 2	51079-00164-0000	17.4	Sc NovApr.	AsD	=	Sc DecMay	JR 10	36-A-57	F 1
									T 744
GRTMG 3	51079-00165-0000	12.1	1	<u> </u>	-	~	JR 10	36-A-57	F 3, 13
GRTMG 4	51079-00166-0000	23.4	<u> </u>	- 0	_	: <u>-</u>	JR 10	36-A-57	T 744 F 4
TOTAL ACRES IN SITE		71.7				2r			

Landowner Coordination Form

This form is used by the Permittee to identify properties (tax parcels) that are authorized to receive biosolids and/or industrial residuals, and each of the legal landowners of those tax parcels. A Land Application Agreement-Biosolids and Industrial Residuals from original signature must be attached for each legal landowner identified below prior to land application at the identified parcels.

Permittee: <u>Recyc Systems, Inc</u>	Site Name:	Thomas M. Garth
--------------------------------------	------------	-----------------

County or City: <u>Greene Co.</u>

Please Print

Signature not required on this page

Tax Parcel ID(s)	Landowners (s)
36-A-57	Thomas Michael Garth
<u></u>	

Page 1 of 2

Report Number: 14-188-0620 Account Number: 70594



A&L Eastern Laboratories

7621 Whitepine Road Richmond, Virginia 23237 (804) 743-9401 Fax (804) 271-6446

Send To: RECYC SYSTEMS INC

SUSAN TRUMBO 8455 WHITESHOP RD CULPEPER VA 22701 Grower:

THOMAS GARTH GREENE CO

Farm ID:

SOIL ANALYSIS REPORT

Analytical Method(s):

Mehlich 3

Date Received: 07/07/2014

Date Of Analysis: 07/08/2014

Date Of Report: 07/08/2014

a		Or	ganic M	atter		Phos	phorus		Pota	Potassium		nesium	Cal	cium	Soc	lium	F	Н	Acidity	C.E.C
Sample ID Field ID	Lab Number	%	Rate	ENR lbs/A	Meh ppm	lich 3 Rate	Res ppm	erve Rate	ppm	K Rate	ppm	Mg Rate	1	a Rate		la Rate	Soil pH	Buffer Index		meq/100g
1 CRTMG	23613	5.6	н	148	31	M			158	VH	159	М	1176	M			5.7	6,73	2.0	9.6
2 CRTMG	23614	6.6	Н	150	109	VH			83	L	132	M	1118	M		·	5,5	6 69	2.4	9.3
3 CRTMG	23615	4.5	М	124	98	Н			68	L	236	Н	1539	M			6.3	6.81	1.2	11.0
4 CRTMG	23616	6.2	н	150	36	M			192	VH	200	Н	894	М			5,5	6.70	2.3	8.9

		Perce	nt Base	Saturati	ion	Nitr	ate	Sι	ılfur	Ziı	10	Mang	anese	lr:	on	Сор	per	Bo	ron	Soluble	Salts	Chlo	ride	Aluminum
Sample ID Field ID	К %	Mg %	Ca %	Na %	H %	NO ppm	3	S ppm Rate p	Z ppm			n Rate		e Rate	ppm C		ppm E		SS ms/cm		ppm	Rate	Al ppm	
1 CRTMG	4.2	138	61.3		21.2																			
2 CRTMG	2.3	11.8	60 1		25 8												•							
3 CRTMG	1.6	17,9	70.0		10.6																			
4 CRTMG	5,5	18_7	50.2		25.8			-															·	

Values on this report represent the plant available nutrients in the soil. Rating after each value: VL (Very Low), L (Low), M (Medium), H (High), VH (Very High), ENR - Estimated Nitrogen Release, C.E.C. - Cation Exchange Capacity.

Explanation of symbols: % (percent), ppm (parts per million), lbs/A (pounds per acre), ms/cm (milli-mhos per centimeter), meq/100g (milli-equivalent per 100 grams). Conversions: ppm x 2 = lbs/A, Soluble Salts ms/cm x 640 = ppm.

This report applies to sample(s) tested. Samples are retained a maximum of thirty days after testing.

Analysis prepared by A&L Eastern Laboratories, Inc.

Dy Pauric Mc George

Pauric McGroary

Page 2 of 2

Report Number: 14-188-0620 Account Number: 70594



A&L Eastern Laboratories

7621 Whitepine Road Richmond, Virginia 23237 (804) 743-9401 Fax (804) 271-6446

Send To: RECYC SYSTEMS INC

SUSAN TRUMBO 8455 WHITESHOP RD CULPEPER VA 22701 Grower:

THOMAS GARTH GREENE CO

Farm ID:

Date Received: 07/07/2014

Date Of Report: 07/08/2014

SOIL FERTILITY RECOMMENDATIONS

Sample ID Field ID	Intended Crop	Yield Goal	Lime Tons/A	Nitrogen N Ib/A	Phosphate P ₂ O ₅ Ib/A	Potash K ₂ O Ib/A	Magnesium Mg lb/A	Sulfur S lb/A	Zinc Zn lb/A	Manganese Mn Ib/A	Iron Fe Ib/A	Copper Cu Ib/A	Boron B Ib/A
1 CRTMG	Adjust pH to 6 8	0	20			_	0						
2 CRTMG	Adjust pH to 6.8	0	2.5				О						
3 CRTMG	Adjust pH to 6 8	0	1.0				0						
4 CRTMG	Adjust pH to 6.8	0	25				0				<u> </u>		

Comments:

"The recommendations are based on research data and experience, but NO GUARANTEE or WARRANTY expressed or implied, concerning crop performance is made."

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Pawie Mc George

Pauric McGroary

THE PLANNER IS NOT STATE CERTIFIED

Nutrient Management Plan Balance Sheet (Spring, 2018-Summer, 2020) Thomas M. Garth Planner: John Doe

Tract: 744 Location: Greene

(N = N based, 1P = P based, 1.5P = P based at 1.5 removal, 0P = No P allowed)

IA - IA DOZECI IL - L	Daseu,	1.25	r based at 1.5 lemov	al, UF - NO F a	noweuj								
Field	Size	Yr.	Crop	Needs	Leg	Manure/Biosld	IT	Man/Bios	Net = Needs -	Sum	Commercial	Notes	
CF\$A No.	(ac)			N-P-K	/Man	Rate & Type	(d)	N-P-K	appld N-P-K	P	N-P-K	1	
/Name	Total/		1	(lbs/ac)	Resid	(season)		(lbs/ac)	(lbs/ac)	rem	(lbs/ac)	1	
	Used						_l .		<u>L'</u>	cred			
2/GRTMG 1(N)	18/18	2018	Grass Pasture	50-80-0	0/0				50-80-0	N/A			
1/GRTMG 2(N)	20/20	2018	Hay/Pasture	120-40-170	0/0				120-40-170	N/A			
3, 13/GRTMG 3(N)	14/14	2018	Fescue grass hay	90-50-185	0/0	-			90-50-185	N/A			
, ,			mt.										
4/GRTMG 4(N)	21/21	2018	Grass Pasture	50-80-0	0/0				50-80-0	N/A			

Commercial Application Methods:

br - Broadcast ba - Banded sd - Sidedress

Notes:

Soil Test Summary

Tract	Field	Acre	Date	P2O5	K20	Lab	Soil pH	Lime Date	rec. lime tons/Ac
744	GRTMG 1	18	2014-Su	M (31 P ppm)	H (158 K ppm)	A&L MIII	5.7		
744	GRTMG 2	20	2014-Su	H+ (109 P ppm)	M (83 K ppm)	A&L MIII	5.5		
744	GRTMG 3	14	2014-Su	H (98 P ppm)	M- (68 K ppm)	A&L MIII	6.3		
744	GRTMG 4	21	2014-Su	M (36 P ppm)	H (192 K ppm)	A&L MIII	5.5		

Field Productivities for Major Crops

Tract Name	Tract/ Field	Field Name	Acres	Predominant Soil Series	Corn	Small Grain	Alfalfa	Grass Hay	Environmental Warnings
744	744/2	GRTMG 1	18	Braddock	IIIb	II _	111	[]]	
	744/1	GRTMG 2	20	Buckhall	IIIb	II	111	111	
	744/3, 13	GRTMG 3	14	Braddock	llb	1	(I	II	
	744/4	GRTMG 4	21	Braddock	Illa	11	II	Ш	

Yield Range

Field Productivity Group	Corn Grain Bu/Acre	Barley/Intensive Wheat Bu/Acre	Std. Wheat Bu/Acre	Alfalfa Tons/Acre	Grass/Hay Tons/Acre
T	>170	>80	>64	>6	>4.0
11	150-170	70-80	56-64	4-6	3.5-4.0
III	130-150	60-70	48-56	<4	3.0-3.5
IV	100-130	50-60	40-48	NA	<3.0
V	<100	<50	<40	NA	NA

Farm Summary Report

Plan: New Plan Spring, 2018 - Summer, 2020

Farm Name: Thomas M. Garth

Location: Greene Specialist: John Doe N-based Acres: 72.6 P-based Acres: 0.0

Tract Name: 744 FSA Number: 744

Location: Greene

Field Name: GRTMG 1

Total Acres: 17.70 Usable Acres: 17.70

FSA Number: 2 Tract: 744

Location: Greene

Slope Class C Hydrologic Group C

Riparian buffer width; 0 ft Distance to stream; 0 ft

Conservation Practices:

Pasture (>75% cover)

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE PH P K Lab

Su-2014 5.7 M(31 P ppm) H(158 K ppm) A&L MIII

Soils:

PERCENT SYMBOL SOIL SERIES

12	AsD	Ashe
45	BcB	Braddock
19	BcC	Braddock
16	EnC3	Elioak
9	MvB	Meadowville

Field Warnings:

Field Name: GRTMG 2

Total Acres: 20.00 Usable Acres: 20.00

FSA Number: 1 Tract: 744

Location: Greene

Slope Class: C Hydrologic Group: C

Riparian buffer width: 0 ft Distance to stream: 0 ft

Conservation Practices:

Pasture (>75% cover)

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE	PH	Р	K		Lab
Su-2014	5.5	H+(109 P ppm)	M(83 K ppm)	A&L MIII	

Soils:

PERCENT	SYMB	OL SOIL SERIES	ò
6	AsD	Ashe	
34	BcB	Braddock	
34	BuC	Buckhall	
1	BuD	Buckhall	
2	EIB	Elioak	
9	EnC3	Elioak	
8	M∨B	Meadowville	

6 Sc Codorus Suches

Field Warnings:

Field Name: GRTMG 3

Total Acres: 14.20 Usable Acres: 14.20

FSA Number: 3, 13 Tract: 744

Location: Greene

Slope Class: B Hydrologic Group: C

Riparian buffer width; 0 ft Distance to stream: 0 ft

Conservation Practices:

Pasture (>75% cover)

P-Index Summary

N-based

Phosphorus Limit method Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE PH P K Lab

Su-2014 6.3 H(98 P ppm) M-(68 K ppm) A&L MIII

Soils:

PERCENT SYMBOL SOIL SERIES

94 BcB Braddock 6 EnD3 Elioak

Field Warnings:

Field Name: GRTMG 4

Total Acres: 20.70 Usable Acres: 20.70

FSA Number: 4 Tract: 744

Location: Greene

Slope Class C Hydrologic Group: C

Riparian buffer width: 0 ft Distance to stream: 0 ft

Conservation Practices:

Pasture (>75% cover)

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE	PН	P	K		Lab
Su-2014	5.5	M(36 P ppm)	H(192 K ppm)	A&L MIII	

Soils:

PERCENT	SYMBO	OL SOIL SERIES
26	BcB	Braddock
54	BcC	Braddock
8	BuD	Buckhall
9	EnC3	Elioak
4	MvB	Meadowville

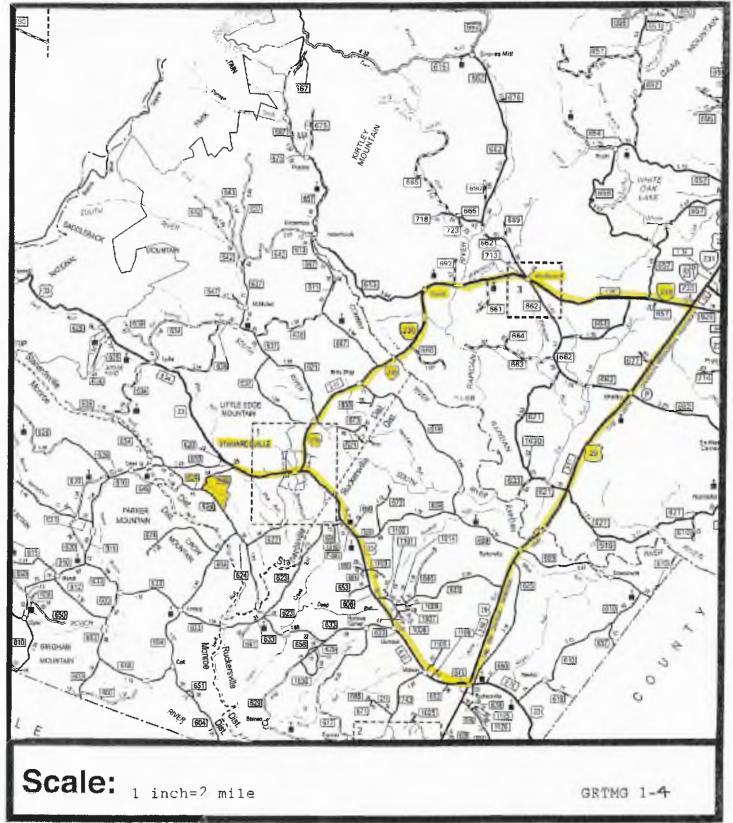
Field Warnings:

M P

Recyc Systems.

(Biosolids Land Application)





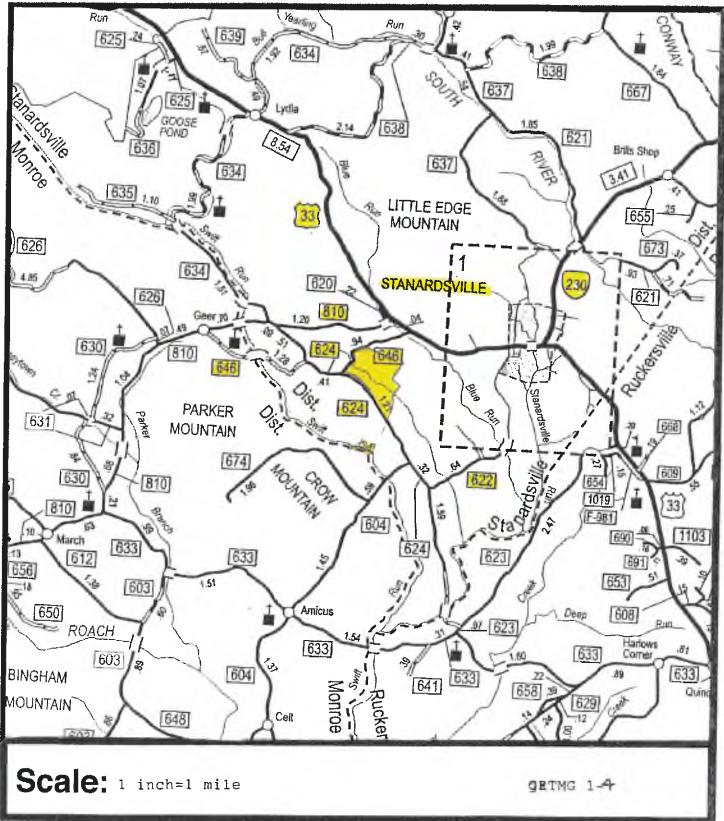
1-18-18

VICINITY MAP

Recyc Systems...

(Biosolids Land Application)

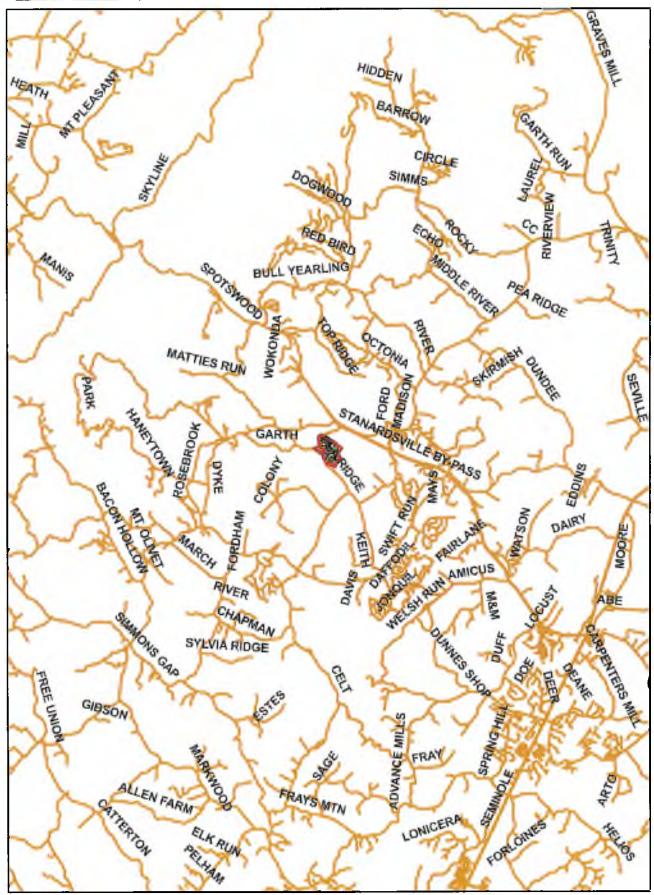




1-18-18

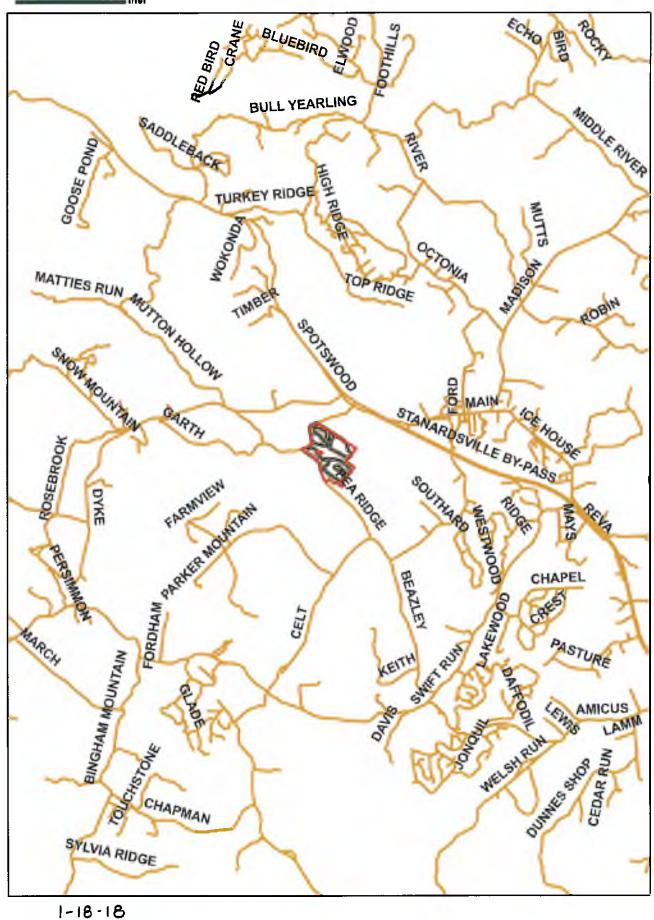
VICINITY MAP





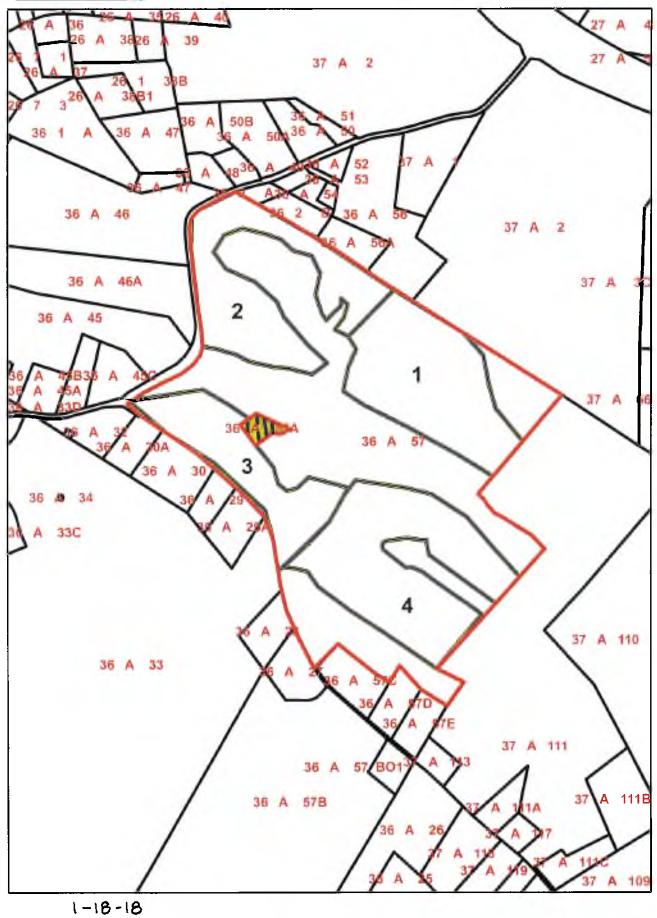










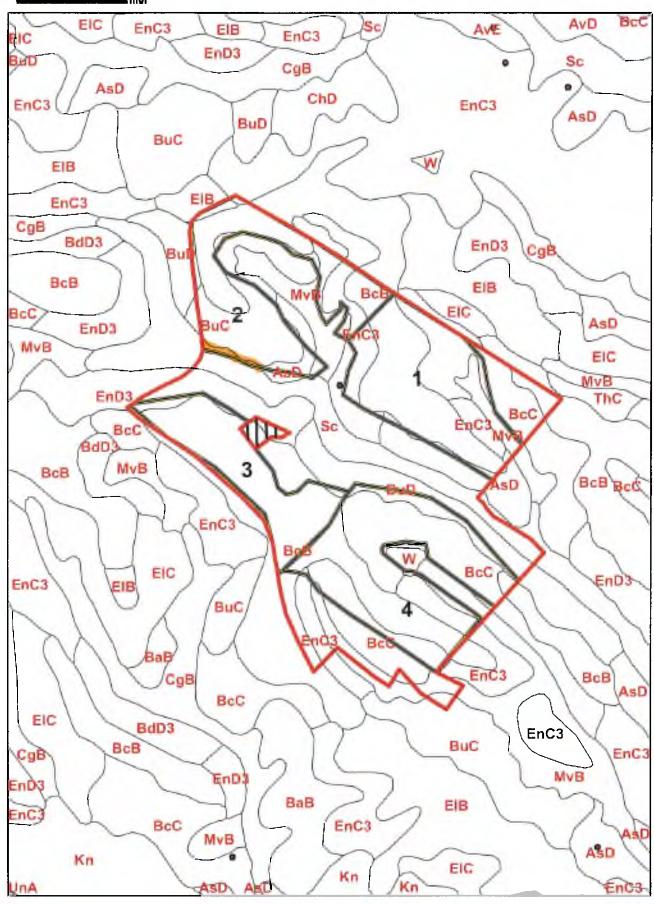


ADJOINING LANDOWNERS

Thomas M. Garth

GREENE COUNTY

Tax Map	Parcel #	Owner Name(s)
	- .	
36-A	27	Lebert W. and Deborah G. Deane
	28	Gary W. and Patricia C. Myers c/o Hugh Collier
	29	Billie Jo. C. Clarke
	29A	Luther H. III and Katrina C. Breeden
	30	Ronnie W. and Betty Lou Roach
	30A	Barbara Jeane Conley
	32	Regina L. Dodd c/o Della Conley
	33	Hugh B. and Willie J. Collier
	45	Kyle Lawson et. als.
	45C	Frank W. Haselton Trustee of the Frank W. Haselton Rev Trust
	46	Ronnie E. and Doris J. Lawson
	46A	David and Donna Roach
	48	Norris and Alwinnie Deane
	56	Sherrard H. and Connie B. Flora
1	56A	Montgomery H. Flora
	57A	Thomas M. and Annette Marie Garth
	57C	Jeremy T. Garth
	57D	James Michael and Katina Verna Morris
	57E	Shannah R. and Daniel L. Evans
36-2	A	Lyndon Byers
	В	Alban C. and Betty C. Berry c/o Betty Berry
37 - A	2	Jo Ann Woods
	111	Gilmer E. Lawson et. als.











I-18-18 revised 08/24/20

USDA UNITED STATES DEPARTMENT OF AGRICULTURE



Disclaimer: Wetland identifiers do not represent the size, shape or specific determination of the area. Refer to your original determination (CPA-026 and attached maps) for exact wetland boundaries and determinations, or contact NRCS.

Legend For Site Plan

Symbol	Feature	Minimum Setback
	House and Well	200 feet from occupied dwelling * 100 feet from water supply wells or springs
	Well or Spring	100 feet from water supply wells or springs
MACCORN I WESTERM I WESTERM	Streams or Surface Water	35 feet with 35 foot vegetated buffer 100 feet without vegetated buffer
ш	Wet Spot	
	Trees and Woods	
	Private Drive	
R	Rock Area/Rock Outcrop	25 feet from rock outcrops 50 feet from limestone rock outcrops
Ξ	Severely Eroded Spot	18 Inch minimum depth of soil
	Sink Hole	100 feet from open sinkholes 50 feet from closed sinkholes
	State Road	10 feet from side of roadway
	Fence / Field Boundary	
P P P	Property Line	100 feet from property line *
SL S	Slope	15% maximum
	Hashed out Area	No application

^{*}Buffer can be reduced or waived upon written consent from landowner.



